

Rabbit CREB Polyclonal Antibody | anti-CREB antibody

CREB (Ser-271), phospho-specific Antibody

CATALOG # AAA71612	HOST Rabbit	REACTIVITY Human, Rat, Mouse, Chicken	APPLICATIONS Immunocytochemistry, ELISA, Western Blot
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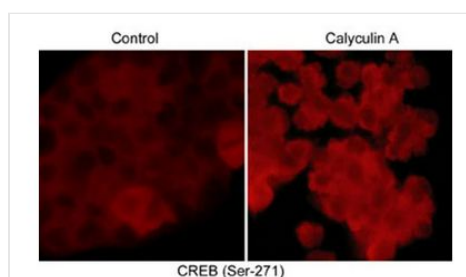
PRODUCT SYNONYMS

CREB; Polyclonal Antibody; CREB (Ser-271); phospho-specific Antibody; phospho-specific; CREB Ser271; anti-CREB antibody

PRODUCT SPECIFICATIONS

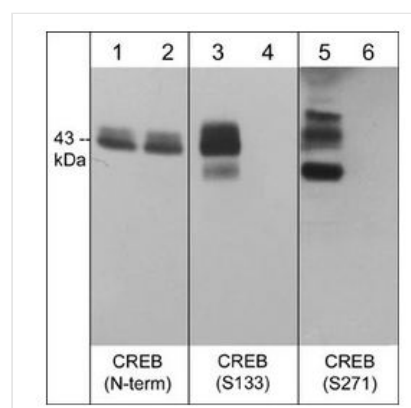
Host	Rabbit
Reactivity	Human, Rat, Mouse, Chicken
Clonality	Polyclonal
Specificity	The antibody detects a 43kDa* protein corresponding to the molecular mass of CREB on SDS-PAGE immunoblots of human A431, Jurkat, and rat PC12 cells treated with Calyculin A, but is not observed after lambda phosphatase treatment.
Form/Format	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-CREB antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Phospho-CREB (Ser-271) synthetic peptide (coupled to carrier protein) corresponding to amino acids surrounding Ser-271 in human CREB. This sequence is well conserved in rat, mouse, chicken, and zebrafish CREB. The site has some homology to the conserved site in ATF1 (Ser-198) and CREM (Ser-287).
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of phosphorylated CREB in control and calyculin A-treated A431 cells. The cells were fixed in paraformaldehyde and permeabilized using NP-40 before labeling with rabbit polyclonal CREB (Ser-271). The antibody was detected using goat anti-rabbit DyLight 594.



WB (Western Blot)

Western blot analysis of human A431 cells treated with calyculin A (100nM) for 30 min. (lanes 1, 3, & 5) then blots were treated with lambda phosphatase (lanes 2, 4, & 6). The blots were probed with anti-CREB (N-terminal region) (lanes 1 & 2), anti-CREB (Ser-133) (lanes 3 & 4), and anti-CREB (Ser-271) (lanes 5 & 6).

ADDITIONAL INFORMATION

Related Product Information for anti-CREB antibody	CREB (cyclic AMP response element-binding protein) is a stimulus-induced transcription factor that plays pivotal roles in cell survival and proliferation. CREB is expressed in various tissues, and has important gene-regulating roles in the nervous system. The transactivation function of CREB is primarily regulated through Ser-133 phosphorylation by cAMP-dependent protein kinase A (PKA) and related kinases. CREB is phosphorylated at other sites in response to calcium influx and DNA damage. The DNA-damage responsive nuclear kinase, HIPK2, can phosphorylate Ser-271 but not Ser-133 in CREB, and this phosphorylation activates CREB transactivation function. Mutation of Ser-271 to Glu-271 potentiates the CREB transactivation function. Thus, phosphorylation of Ser-271 may be the mode of activation for CREB-dependent transcription in response to genotoxic stress.
References	Sakamoto, K. et al. (2010) Mol. Biol. Cell 21:2966. Lonze, B.E. & Ginty, D.D. (2002) Neuron 35:605. Gonzalez, G.A. & Montminy, M.R. (1989) Cell. 59(4):675.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758054
NCBI GeneID	1385
NCBI Accession #	NP_004370.1
NCBI GenBank Nucleotide #	NM_004379.3
UniProt Accession #	P16220 ; P21934 ; Q6V963 ; Q9UMA7
Molecular Weight	36,688 Da
NCBI Official Full Name	cyclic AMP-responsive element-binding protein 1 isoform A
NCBI Official Synonym Full Names	cAMP responsive element binding protein 1
NCBI Official Symbol	CREB1
NCBI Official Synonym Symbols	CREB
NCBI Protein Information	cyclic AMP-responsive element-binding protein 1; CREB-1; transactivator protein; active transcription factor CREB; cAMP-response element-binding protein-1; cAMP-responsive element-binding protein 1
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 1
UniProt Gene Name	CREB1
UniProt Synonym Gene Names	CREB-1
UniProt Entry Name	CREB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/creb-antibody-immunocytochemistry-western-blot-elisa/71612>